



Exponents - Fractional Base (Expanded)



1 Find the answer when this fraction is multiplied as shown

$$\left(\frac{3}{2}\right) \cdot \left(\frac{3}{2}\right) \cdot \left(\frac{3}{2}\right) \cdot \left(\frac{3}{2}\right)$$

- A $\frac{12}{64}$ B $\frac{243}{4}$ C $\frac{9}{8}$ D $\frac{81}{16}$ E $\frac{243}{8}$ F $\frac{729}{8}$

2 Find the answer when this fraction is multiplied as shown

$$\left(\frac{10}{2}\right) \cdot \left(\frac{10}{2}\right)$$

- A $\frac{103}{7}$ B $\frac{20}{7}$ C $\frac{100}{4}$
D $\frac{20}{8}$ E $\frac{10}{8}$ F $\frac{20}{4}$

3 Find the answer when this fraction is multiplied as shown

$$\left(\frac{6}{11}\right) \cdot \left(\frac{6}{11}\right)$$

- A $\frac{12}{1,331}$ B $\frac{1,296}{14,641}$ C $\frac{36}{121}$
D $\frac{1}{11}$ E $\frac{216}{22}$ F $\frac{216}{14,641}$

4 Find the answer when this fraction is multiplied as shown

$$\left(\frac{11}{6}\right) \cdot \left(\frac{11}{6}\right)$$

- A 22 B $\frac{13}{1,296}$ C $\frac{11}{216}$
D $\frac{22}{8}$ E $\frac{14,641}{8}$ F $\frac{121}{36}$

5 Find the answer when this fraction is multiplied as shown

$$\left(\frac{10}{4}\right) \cdot \left(\frac{10}{4}\right)$$

- A $\frac{100}{16}$ B $\frac{12}{4}$ C 1
D $\frac{20}{4}$ E $\frac{12}{8}$ F 12

6 Find the answer when this fraction is multiplied as shown

$$\left(\frac{2}{9}\right) \cdot \left(\frac{2}{9}\right)$$

- A $\frac{16}{11}$ B $\frac{4}{11}$ C $\frac{16}{729}$
D $\frac{4}{18}$ E $\frac{1}{9}$ F $\frac{4}{81}$

7 Find the answer when this fraction is multiplied as shown

$$\left(\frac{3}{11}\right) \cdot \left(\frac{3}{11}\right)$$

- A $\frac{9}{121}$ B $\frac{12}{11}$ C $\frac{6}{14,641}$
D $\frac{6}{1,331}$ E $\frac{5}{1,331}$ F $\frac{5}{13}$

8 Find the answer when this fraction is multiplied as shown

$$\left(\frac{4}{11}\right) \cdot \left(\frac{4}{11}\right)$$

- A $\frac{19}{13}$ B $\frac{64}{14,641}$ C $\frac{1}{1,331}$
D $\frac{64}{11}$ E $\frac{16}{121}$ F $\frac{6}{118}$